

PCT Rec'd 16 APR 2001

09/701453

1645
PATENT

Atty. Dkt. No. CHIR-0283

Client Dkt. No. 1528.102

that this paper is being deposited in the United States Postal Service as first class mail in an envelope addressed: BOX MISSING PARTS, Assistant Commissioner of Patent and Trademarks, Washington, D.C. 20231 on April 11, 2001.

Dan M. Granoff
Cyne Riser

04.11.2001

Date

RECEIVED

JUL 26 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of

DAN M. GRANOFF et al.

Serial No.: PCT/US99/11977

Group Art: Unassigned

Filed: May 28, 1999

Examiner: Unassigned

For: COMBINATION MENINGITIDIS B/C VACCINES

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

CHIRON CORPORATION

(Name of Assignee)

Corporation

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☐ the assignee of the entire right, title, and interest, or
2. ☒ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☐ An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: _____ To: _____

The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

[X] Copies of assignments or other documents in the chain of title are attached.

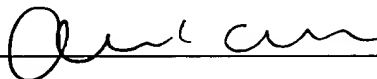
[NOTE: A separate copy (*i.e.*, the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: 11 April 2001

Name: Alisa A. Harbin

Title: Assistant Secretary, CHIRON CORPORATION

Signature: 

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231,

on this 10 day of April, 2001.

By Byrne Arsen

COPY

PATENT

Atty. Docket No. 1528.001

USSN 60/087,351

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

DAN M. GRANOFF et al.

Serial No.: 60/087,351

Filed : May 29, 1998

For : COMBINATION MENINGITIDIS B/C VACCINES



RECEIVED

JUL 26 2001

Group Art: Unassigned TECH CENTER 1600/2900

Examiner: Unassigned

ASSIGNMENT DOCUMENT COVER LETTER

Box Assignment

Assistant Commissioner of Patents and Trademarks

Washington, D.C. 20231

1. The accompanying assignment covers the patent or application identified above.

X No other patents or applications are covered by the assignment.

— Other patents and/or applications are covered by the assignment as shown on the attached LIST OF PATENTS AND/OR APPLICATIONS COVERED BY ASSIGNMENT.

NAMES OF PARTY MAKING TRANSFER

2. Name 1: Dan M. Granoff
Howard Raff

IDENTITY OF PARTY TO WHOM TRANSFER IS MADE

3. Transfer is being made to:

CHIRON CORPORATION
4560 Horton Street
Emeryville, California 94608-2916
United States of America

COPY ONLY
DO NOT FORWARD
TO
ASSIGNMENT BRANCH

PATENT
Atty. Docket No. 1528.001
USSN 60/087,351

INTENTION OF DOCUMENT

4. The accompanying document is an:

 X Assignment License
 Security Interest Other

 X Execution Dates: April 5 & April 9, 2001

FEE PAYMENT

5. Total fee due \$40.00

6. Charge Deposit Account No. 03-1664 in the sum of \$40.00.

 X Enclosed is a check for \$40.00.

 X The Commissioner is hereby authorized to charge any additional fees which may be required or credit any overpayment to Deposit Account No. 03-1664. THIS IS NOT AN AUTHORIZATION FOR PAYMENT OF ANY ISSUE FEES.

**ADDRESS TO WHICH DOCUMENT SHOULD BE RETURNED AFTER RECORDAL
BY PTO**

7. Please return the recorded document to:

CHIRON CORPORATION
Intellectual Property - R440
P.O. Box 8097
Emeryville, California 94662-8097
United States of America

STATEMENT BY THE PARTY

8. I hereby submit that, to the best of my knowledge and belief, the foregoing information contained herein is true and correct and any copy submitted herewith is a true and correct copy of the original document.

Respectfully submitted,

Dated: 4/10/01

By: 

Alisa A. Harbin
Attorney for Assignee
Reg. No. 33,895

CHIRON CORPORATION
Intellectual Property - R440
P.O. Box 8097
Emeryville, California 94662-8097
(510) 923-2708
(510) 655-3542 (Fax)

Total number of pages comprising cover sheet: 7 (Cover Letter plus Original Assignment)

ASSIGNMENT

WHEREAS, WE, DAN M. GRANOFF AND HOWARD RAFF

hereinafter referred to as **ASSIGNORS**, have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: COMBINATION MENINGITIDIS B/C VACCINES

Date of Execution:

Serial No: 60/087,351

Filing Date: 05/29/98

WHEREAS, CHIRON CORPORATION, 4560 Horton Street, Emeryville, California 94608-2916, a corporation of the State of Delaware, hereinafter referred to as **ASSIGNEE**, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to **ASSIGNORS** by **ASSIGNEE**, receipt of which is hereby acknowledged, **ASSIGNORS** have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said **ASSIGNEE**, and **ASSIGNEE'S** successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. § 119(e)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said **ASSIGNEE** as fully and exclusively as it would have been held and enjoyed by said **ASSIGNORS** had this assignment and transfer not been made, to the full end and term of any Letters Patent.

ASSIGNORS also agree that the U.S. serial number may be entered above by **ASSIGNEE** or its agents upon designation of the serial number by the U.S. Patent and Trademark Office.

ASSIGNORS further agree that they will, without charge to said **ASSIGNEE**, but at **ASSIGNEE'S** expense, cooperate with **ASSIGNEE** in the prosecution of said application and/or

COPY ONLY
DO NOT FORWARD
TO
ASSIGNMENT BRANCH

applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as *ASSIGNEE* lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said *ASSIGNEE*, or *ASSIGNEE'S* successors and assigns.

IN TESTIMONY WHEREOF, *ASSIGNORS* have hereunto signed their names to this assignment on the dates indicated below.

DATE 4/9/01

Dan M. Granoff
Dan M. Granoff

DATE 4/5/01

H. Raff
Howard Raff

CALIF RNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

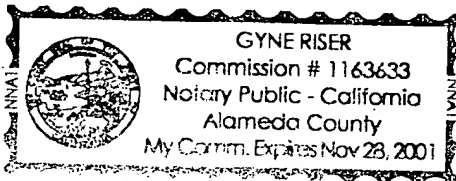
County of Alameda

} ss.

On 04/09/01, before me, Gyne Riser
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Dan Granoff--
Name(s) of Signer(s)

- ☒ personally known to me
☐ proved to me on the basis of satisfactory evidence



to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Gyne Riser
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Assignment 1528.001

Document Date: 04/05/01 Number of Pages: Two

Signer(s) Other Than Named Above: Howard Raff

Capacity(ies) Claimed by Signer

Signer's Name: _____

- ☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER

Top of thumb here

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Alameda

} ss.

On 04/05/01

Date

, before me,

Gyne Riser

Name and Title of Officer (e.g., "Jane Doe, Notary Public")

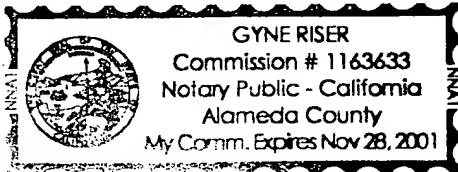
personally appeared --Howard Raff--

Name(s) of Signer(s)

☒ personally known to me

☐ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Gyne Riser

Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Assignment 1528.001

Document Date: 04/05/01

Number of Pages: Two

Signer(s) Other Than Named Above: Dan Granoff

Capacity(ies) Claimed by Signer

Signer's Name: _____

☐ Individual

☐ Corporate Officer -- Title(s): _____

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER

Top of thumb here

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: COMBINATION MENINGITIDIS B/C VACCINES

the specification of which (check one) is attached hereto X was filed on May 28, 1999, as Application Serial No. IB/US99/11977, and was amended on (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
Number	Country	Day/Month/Year Filed	<u>Yes</u>	<u>No</u>

I hereby claim the benefit under Title 35, United States Code, §120 and/or §119(e) of any United States application(s) and/or provisional applications listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status <u>Patented, Pending, Abandoned</u>
60/087,351	05/29/98	Abandoned
60/106,446	10/30/98	Abandoned

I hereby declare that all statements herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States code and

that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1 - 00 Full name of sole or first inventor Dan M. Granoff

Inventor's signature Dan M Granoff Date 4/09/01

Residence Berkeley, California CA

Citizenship U.S.

Post Office Address 1085 Creston Road, Berkeley, CA 94708

Full name of sole or second inventor Ingeborg Aaberge

Inventor's signature _____ Date _____

Residence Oslo, Norway

Citizenship Norwegian

Post Office Address Statens Institutt, P.O. Box 4404, N-0403, Oslo Norway

Full name of sole or third inventor Bjorn Haneberg

Inventor's signature _____ Date _____

Residence Oslo, Norway

Citizenship Norwegian

Post Office Address Statens Institutt, P.O. Box 4404, N-0403, Oslo Norway

Full name of sole or fourth inventor Johan Holst

Inventor's signature _____ Date _____

Residence Oslo, Norway

Citizenship Norwegian

Post Office Address Statens Institutt, P.O. Box 4404, N-0403, Oslo Norway

2-∞ Full name of sole or fifth inventor Howard Raff

Inventor's signature

H. Raff

Date

4/5/01

Residence Seattle, Washington

MILL VALLEY, CA

Citizenship U.S.

Post Office Address 2552 11th Avenue West, Seattle, WA 98119

296 GREWE ST., MILL VALLEY, CA 94541

0970453-0450
TDS-10-25110260

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: COMBINATION MENINGITIDIS B/C VACCINES

the specification of which (check one) ___ is attached hereto X was filed on May 28, 1999, as Application Serial No. 09/701,453, and was amended on ___ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
Number	Country	Day/Month/Year Filed	Yes	No

I hereby claim the benefit under Title 35, United States Code, §120 and/or §119(e) of any United States application(s) and/or provisional applications listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status Patented, Pending, Abandoned
60/087,351	05/29/98	abandoned
60/106,446	10/30/98	abandoned

I hereby declare that all statements herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements and the like so made are

punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Dan M. Granoff

Inventor's signature _____ Date _____

Residence Berkeley, California

Citizenship U.S.

Post Office Address 1085 Creston Road, Berkeley, CA 94708

Full name of sole or second inventor Howard Raff

Inventor's signature _____ Date _____

Residence Seattle, Washington

Citizenship U.S.

Post Office Address 2552 11th Avenue West, Seattle, WA 98119

3-∞ Full name of sole or third inventor Ingeborg S. Aaberge

Inventor's signature Ingeborg S. Aaberge Date March 29, 2001

Residence Oslo, Norway NOX

Citizenship Norway

Post Office Address P.O.Box 4404 Nydalen, N-0403 Oslo

4-00 Full name of sole or fourth inventor Bjorn Haneberg

Inventor's signature Bjorn Haneberg Date March 29. 2001

Residence Oslo, Norway NOX

Citizenship Norway

Post Office Address P.O.Box 4404 Nydalen, N-0403 Oslo

5-00 Full name of sole or fifth inventor Johan Holst

Inventor's signature Johan Holst Date March 29. 2001

Residence Oslo, Norway NOX

Citizenship Norway

Post Office Address P.O.Box 4404 Nydalen, N-0403 Oslo

10310-0100